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## QUARTERLY TECHNICAL PROGRESS REPORT

1 November 1971 - 31 January 1972

During this quarter, our main emphasis has been on the preparation of a series of reports, based on a systems approach to several groups or families of techniques for incapacitation. Rather than to re-review superficially every possible type of incapacitation technique, our effort has been concentrated in areas 1) where a medical or physiological evaluation (as opposed to ballistics, pyrotechnics, etc.) would offer a useful contribution; 2) where there appeared to be some promise of usefulness of the technique, and 3) where a technique appeared to be new or insufficiently studied.

A report entitled, [redacted] "As a Vehicle For Incapacitating Agents," was completed in December and forwarded to [redacted] does not appear to be a promising vehicle for administration of incapacitating agents, principally because of the long time required for "carried" substances to reach peak blood concentrations. Any dosage large enough to provide rapid incapacitation would be dangerously large, if not fatal, at the time of maximum blood concentration. Besides being slow, too many variables affect the absorption of [redacted] agent combinations and the fact that the technique cannot be used surreptitiously offers several possibilities for countermeasures. A second, informal report on the "Possible Interaction Between [redacted] [redacted]" was submitted in January.

The report on non-penetrating impact, completed in late January was scheduled for submission early in February, 1972. In spite of the widespread use of billy clubs, special ordnance rounds and other impact devices, useful incapacitation by means of impact remains either unreliable (at the "safe" extreme) or hazardous at levels which will reliably incapacitate the subject. Blows to the genitalia in males and high-velocity, low-mass impacts appear to be the only truly safe methods of incapacitation. The latter is of only limited effectiveness.

The next two activities will be brief reviews of [redacted] as a possible

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incapacitating agent and of the [redacted] electric shock system.

Administrative Aspects

Expenditures to date:

	<u>Quarter Amount</u>	<u>% of Total</u>	<u>Cumulative Amount</u>	<u>% of Total</u>
Nov 1970-Jan 1971	\$	1.2	\$	1.2
Feb - Apr 1971		14.4		15.6
May-Jul 1971		7.7		23.3
Aug-Oct 1971		22.3		45.6
Nov 1971-Jan 1972		31.1		76.6
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